



Annual Performance Report Form

Facility Name: Texas Instruments Incorporated (Revision 07/08/2002)

Performance Track ID #: A010029

Annual Performance Report #: 1

Reporting Year: 2001

Due Date: July 1, 2002

Section A

General Facility Information

To the extent possible, EPA will pre-complete items A.1-A.8 for you. Please ensure that the information in A.1-A.8 below is accurate, complete, and up to date. Please supply or revise any information as necessary and then check the box to the left of the item(s) to indicate where changes have been made. Items A.9 and A.10 cannot be pre-completed; please respond as directed in A.9 and A.10 below.

Did you make changes? If so, check box.

- A.1 ☒ Name of your facility: Texas Instruments Incorporated, Sensors & Controls
- A.2 ☐ Name of your parent company: Texas Instruments Incorporated
- A.3 ☐ Facility contact person for the Performance Track program
Name: Mr./Mrs./Ms./Dr. Mr. Raymond P. Lizotte, Jr.
Title: Senior Environmental Engineer, Member Technical Staff
Phone: 508-236-3016 Fax: 508-236-3839 E-mail: rlizotte@ti.com
- A.4 ☐ Facility's location
Street Address: 34 Forest Street
Street Address (cont.): MS 10-02
City/State/Zip Code: Attleboro MA 02703
- A.5 ☐ Facility's website address (if any): www.TI.com
- A.6 ☐ Number of employees (full-time equivalents) who currently work in the facility:
☐ Fewer than 50 ☐ 50 - 99 ☐ 100 - 499 ☐ 500 - 1000 ☒ More than 1000
- A.7 ☐ Does your company meet the Small Business Administration definition of a small business for your sector? ☐ Yes ☒ No
- A.8 ☒ North American Industrial Classification System (NAICS) Code(s) that are used to classify business at the facility: 334512 336322 _____
- A.9 ☐ In your application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any (additional) changes to your facility's list of products and/or activities? If so, please list them in the space below. ☐ Yes ☒ No
No Changes
- A.10 ☐ Please update the list of environmental requirements that apply to your facility. In the space below, indicate any changes that have taken place during this reporting period. If you have no changes to report, please write "No changes."
No Changes

Section B

Environmental Management System

B.1 Environmental Management System Assessment. Please summarize EMS assessments conducted *during the year*. Attach additional sheets as necessary.

a. Was an EMS audit or other assessment done by an independent third party?

☒ Yes ☐ No

If yes, please provide the *type* (e.g., ISO 14001 certification), the *scope*, and the *dates* (mo/yr) of each assessment.

In preparation for the site's ISO14001 Certification Audit (scheduled for July 2002), a review of the site's environmental management system was conducted in May 2002 by an independent third party. The audit covered all ISO14001 Management System Elements and was applied to all environmental programs at the Texas Instruments Incorporated, Sensors & Controls

b. Was an internal or corporate EMS audit conducted? ☒ Yes ☐ No

If yes, please provide the *scope* and the *dates* (mo/yr) of each audit.

In October 2001 and as part of the site's Corporate Compliance Audit, ISO14001 Management System Elements related to the site's Compliance Assurance procedures were assessed.

c. Was a compliance audit conducted? ☒ Yes ☐ No

If yes, please provide the *scope* and the *dates* (mo/yr) of each audit, and indicate *who* conducted the audit(s) (e.g., facility staff, corporate groups, third party).

In October 2001, a team from the Worldwide Environmental Safety & Health Department of Texas Instruments Incorporated (TI Corporate Group) was conducted. The Compliance Audit covered environmental, safety, industrial hygiene, medical and fire protection regulatory (state and federal) requirements, TI standards, and TI best management practices.

d. (Optional) If you would like to describe any other audits or inspections that were conducted at your facility, please do so here.

NA

Section B

(continued)

B.1

e. Briefly summarize corrective actions taken and other improvements made as a result of your EMS assessments and compliance audits.

1. The results of the EMS audits (October 2001 and May 2002) uncovered a number of areas for improvement, especially in regards to documentation. Action plans to address each applicable improvement opportunity have been implemented in preparation for the site's July 2002 ISO14001 certification audit.

2. The results of the Compliance audit (October 2001) identified several areas of potential noncompliance: Ozone depleting chemical management (40 CFR 82.156(i) (3 and 4)), DOT Training (49 CFR 172 Subpart H), and Integrated Contingency Plan update (40 CFR 112.3(e) and 265.52).

f. Has your facility corrected all instances of potential non-compliance and EMS non-conformance identified during your audits and other assessments?

☒ Yes ☐ No ☐ No such instances identified

If no, please explain your plans to correct these instances.

g. When was the last Senior Management review of your EMS completed? *mo/yr* October 2001

Who headed the review?

Name: Mr./Mrs./Ms./Dr. Mr. James Armstrong

Title: Vice President, Operational Excellence

Section B

(continued)

B.2 ISO 14001 Certification. Is your facility currently certified to ISO 14001? ☐ Yes ☒ No

B.3 Environmental Aspects Identification. When did your facility last conduct a systematic identification and/or review of your environmental aspects? *mo/yr* May 2002

B.4 Progress Toward Achieving Objectives and Targets. In the table below, please provide a narrative summary of progress made toward EMS objectives and targets. **You may limit the summary to environmental aspects that are *significant* and towards which *progress* has been made during the *reporting year*.** In cases where progress relates specifically to a Performance Track performance commitment, complete the *Environmental Aspect* column, but in the *Progress* column simply refer to the performance commitment tables in Section C, i.e. "See Section C." Attach additional sheets as necessary.

<i>Environmental Aspect</i>	<i>Progress Made This Year</i> (e.g., quantitative or qualitative improvements, activities conducted)
Hazardous Waste, Non-Hazardous Solid Waste Reduction	See Section C
Halogenated Solvent Use	See Section C
Energy Consumption	See Section C
Environmental Characteristics of New Products	See Section C
Wastewater Generation	Aggressive Water Use and Wastewater Generation Reduction Team (the WWT Optimization Team has reduced overall site water use and subsequent wastewater generation (58% reduction in wastewater generation from the 1998 baseline year).
ESH Risk Reduction	Implementation of TPM Model of improving operations within ESH Operations with 33% of ESH Operations achieving Pillar 5 certification.

Section C

Environmental Performance Commitments

Please use the tables on pages 6-9 to summarize your facility's environmental performance against your Performance Track performance commitments. Complete only those boxes related to the baseline, current year, and performance commitment. If any of the boxes have been pre-completed for you, please verify the information. If you find information that is incorrect, cross it out and write in the correct information. **Leave blank any columns for future reporting years.**

C.1

Performance Commitment 1

a. Use this table to report data related to your first performance commitment.

Category (see page 16 of the instructions): Waste

Aspect (see page 16 of the instructions): Hazardous Waste Generation

	<i>Baseline</i> (as stated in your application)	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Performance Commitment</i> (the goal stated in your application)
<i>Calendar Year</i>	2000	2001			2003
<i>Actual Quantity</i> (per year)	445000	253000			275000 (optional)
<i>Measurement Units</i>	pounds				
<i>Normalizing Factor*</i>	1.0	0.82			1.0 (optional)
<i>Basis for your Normalizing Factor*</i>	Production Activity as defined by Units Manufactured				
<i>Normalized Quantity*</i> (per year)	445000	308537			275000

*See pages 17-19 of the instructions for more information

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The Texas Instruments Incorporated, Sensors & Controls site pollution prevention program identifies wasted resources from each manufacturing operation without classifying the wasted resource as either hazardous or non-hazardous. In the original application, the aspect was the generation of hazardous and nonhazardous waste. Per EPA request, the aspect has been divided and the current performance commitment reflects only the hazardous portion of the original commitment.

Achievements have been achieved via continuation of existing pollution prevention program to eliminate wasted resources by increasing recycling rate, improved use of materials, and use reduction.

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g., Energy Star, Project XL).
NA

Section C

(continued)

C.2

Performance Commitment 2

a. Use this table to report data related to your second performance commitment.

Category (see page 16 of the instructions): Energy					
Aspect (see page 16 of the instructions): Energy Use					
	<i>Baseline (as stated in your application)</i>	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Performance Commitment (the goal stated in your application)</i>
<i>Calendar Year</i>	2000	2001			2003
<i>Actual Quantity (per year)</i>	536014	461000			509000 (optional)
<i>Measurement Units</i>	mmBTU				
<i>Normalizing Factor*</i>	1.0	0.90			1.0 (optional)
<i>Basis for your Normalizing Factor*</i>	Facility Energy Need: Process portion based on production activity, Comfort Heat defined by the size of the facility corrected by annual average temperature.				
<i>Normalized Quantity* (per year)</i>	536014	512000			509000
*See pages 17-19 of the instructions for more information					

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

Continuation of existing program to implement energy conservation projects.

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g., Energy Star, Project XL).

NA

Section C

(continued)

C.3 Performance Commitment 3

a. Use this table to report data related to your third performance commitment.

Category (see page 16 of the instructions): Materials					
Aspect (see page 16 of the instructions): Lead Electrical Connections					
	<i>Baseline (as stated in your application)</i>	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Performance Commitment (the goal stated in your application)</i>
<i>Calendar Year</i>	2000	2001			2003
<i>Actual Quantity (per year)</i>	4253	3208			3162 (optional)
<i>Measurement Units</i>	lbs of lead used in soldered connections in TI-Attleboro/Mansfield				
<i>Normalizing Factor*</i>	1.0	0.82			1.0 (optional)
<i>Basis for your Normalizing Factor*</i>	Production Activity as defined by Units Manufactured				
<i>Normalized Quantity* (per year)</i>	4253	3912			3162
*See pages 17-19 of the instructions for more information					

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The Texas Instruments Incorporated, Sensor & Controls site participating in Performance Track is a Technology Development Center for a number of Texas Instruments sites worldwide. A major aspect of the site's Environmental Management System is the incorporation of positive environmental characteristics into new products being developed. Manufacturing of new products occurs at any one of the Texas Instruments sites worldwide dedicated to manufacturing. The internal objective/target for this major aspect is % new products being developed without leaded electrical connections (as described in the original application). Per EPA request, this aspect has been modified to reflect lead use in Attleboro (where only a small percentage of manufacturing is located). Due to product mix, Attleboro site attainment of the overall objective of 75% reduction of leaded connections is not forecast to occur in 2005 when the Attleboro site lead use will be reduced to 510 lbs (two years after all the Texas Instruments Incorporated, Sensors & Controls sites achieve the objective). Progress to date has been through the decommissioning of several older product lines and not by the development of no-lead technology.

Engineers at the Attleboro site are participating in a number of programs to develop no-lead electrical connections at the request of customers who are demanding no-lead products. This work is ongoing and as no-lead products are developed, the appropriate manufacturing line

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g., Energy Star, Project XL).
NA

Section C

(continued)

C.4 Performance Commitment 4

a. Use this table to report data related to your fourth performance commitment.

Category (see page 16 of the instructions): Materials Use

Aspect (see page 16 of the instructions): Halogenated Solvent Reduction

	<i>Baseline (as stated in your application)</i>	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Performance Commitment (the goal stated in your application)</i>
<i>Calendar Year</i>	1999	2001			2003
<i>Actual Quantity (per year)</i>	171787	106937			33070 (optional)
<i>Measurement Units</i>	pounds				
<i>Normalizing Factor*</i>	1.0	0.99			1.0 (optional)
<i>Basis for your Normalizing Factor*</i>	Net Revenue				
<i>Normalized Quantity* (per year)</i>	171787	108017			33070

*See pages 15-17 of the instructions for more information

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The Texas Instruments Incorporated, Sensor & Controls site participating in Performance Track is a Technology Development Center for a number of Texas Instruments sites worldwide. A major aspect of the site's Environmental Management System is the incorporation of positive environmental characteristics into processes being used to manufacture products. Manufacturing of products occurs at any one of the Texas Instruments sites worldwide dedicated to manufacturing, but the technology to manufacture is developed at Technology Development Centers such as the Attleboro site. The internal objective/target for this major aspect is lbs of halogenated solvents used at all sites manufacturing product. NOTE: The Attleboro Site only represents approximately 5% of the Actual Quantity.

Engineers at the Attleboro site are actively developing a number of new ways to manufacture product such that the use of halogenated solvents is not necessary. The program is on schedule to attain the objective by YR 2003.

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g., Energy Star, Project XL).
NA

Section D

Public Outreach and Performance Reporting

D.1

Please briefly summarize the public outreach and reporting activities that your facility has conducted during the year. Feel free, but not obligated, to attach supporting materials (e.g., meeting agendas, public announcements).

Texas Instruments Incorporated annually conducts an aggressive schedule of public outreach. The following are several events that highlighted specifically the site's performance on Performance Track initiative and achieving related objectives/targets.

1. Cleaner Technologies Sites Program, with the Massachusetts Toxics Use Reduction Institute on achieving energy reductions (achieving objective C2), March 2002.
2. Massachusetts Environmental Stewardship Program, incorporating equivalent objectives (C1-C4 into the Massachusetts version of Performance Track), June 2002.
3. Texas Instruments EMS Deployment at the 2002 Environmental Expo, May 2002.
4. Toxics Use Reduction Planner Course on achieving Toxics Use Reduction and Energy Reduction Simultaneously, April 2002.

D.2

Please indicate which of the following methods your facility plans to use to make its Performance Track Annual Performance Report available to the public. Please check as many as are appropriate.

☒ Website (URL www.TI.com as an element of the TI worldwide Environmental Performance Report)

☐ Open House

☐ Meetings

☒ Press Releases

☐ Community Advisory Panel

☒ Other Provide the Performance Report via CD-ROM to interested parties.

Section E

Self-Certification of Continued Program Participation

On behalf of Texas Instruments Incorporated,
(name of my facility)

I certify that

- ◆ I have read and agree to the terms and conditions specified in *the National Environmental Performance Track Program Guide*. This facility, to the best of my knowledge, continues to meet all program criteria;
- ◆ I have personally examined and am familiar with the information contained in this Annual Performance Report. The information contained in this report is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete;
- ◆ My facility has an environmental management system (EMS), as defined in the Performance Track EMS criteria, including systems to maintain compliance with all applicable federal, state, tribal, and local environmental requirements in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;
- ◆ My facility has conducted an objective assessment of its compliance with all applicable federal, state, tribal, and local environmental requirements; and the facility has corrected all identified instances of potential or actual noncompliance; and
- ◆ Based on the foregoing compliance assessments and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable federal, state, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environmental Performance Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior manager with responsibility for the facility and am fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is part of the National Environmental Performance Track program.

Signature/Date _____

Printed Name Mr./Mrs./Ms./Dr. Mr. Francis J. Veale, Jr.

Title Manager, S&C Environmental Safety and Health

Phone Number/E-mail Address 508-236-1804/fveale@ti.com

Facility Name Texas Instruments Incorporated

Facility Street Address 34 Forest Street

Performance Track Identification Number A010029

Paperwork Reduction Act Notice

The public reporting and recordkeeping burden for this collection of information is estimated to average 188 hours per respondent annually. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.